

Appendix E. Concentrations of inorganic elements (mg/L) in water collected from various stations at Walter Walker State Wildlife Area.

| Measure | Date | Day of study | WW1 | WW4 | WW4b | WW6 | WW8 | WW8b |
|-----------|----------|--------------|--------------------|--------|--------|--------|----------------|--------|
| Aluminum | 06/16/97 | 769 | <0.05 ¹ | <0.05 | <0.05 | <0.05 | - ² | <0.05 |
| | 08/11/97 | 824 | <0.05 | <0.05 | <0.05 | <0.05 | 0.21 | <0.05 |
| | 10/14/97 | 888 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | 12/15/97 | 950 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | 02/17/98 | 1,014 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | 04/14/98 | 1,070 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | 06/15/98 | 1,132 | <0.05 | <0.05 | <0.05 | <0.05 | - | <0.05 |
| | 08/17/98 | 1,195 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| Arsenic | 06/16/97 | 769 | <0.03 | <0.03 | <0.03 | <0.03 | - | <0.03 |
| | 08/11/97 | 824 | <0.03 | <0.03 | <0.03 | <0.03 | 0.04 | <0.03 |
| | 10/14/97 | 888 | 0.04 | <0.03 | <0.03 | <0.03 | <0.03 | 0.05 |
| | 12/15/97 | 950 | 0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| | 02/17/98 | 1,014 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| | 04/14/98 | 1,070 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 |
| | 06/15/98 | 1,132 | <0.03 | <0.03 | <0.03 | <0.03 | - | <0.03 |
| | 08/17/98 | 1,195 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Boron | 06/16/97 | 769 | 0.020 | 0.025 | 0.026 | 0.017 | - | 0.010 |
| | 08/11/97 | 824 | 0.025 | 0.038 | 0.470 | 0.040 | 0.036 | 0.042 |
| | 10/14/97 | 888 | 0.038 | 0.040 | 0.350 | 0.040 | 0.044 | 0.037 |
| | 12/15/97 | 950 | 0.041 | 0.020 | 0.040 | 0.046 | 0.046 | 0.053 |
| | 02/17/98 | 1,014 | 0.050 | 0.043 | 0.057 | 0.046 | 0.049 | 0.046 |
| | 04/14/98 | 1,070 | 0.041 | 0.047 | 0.180 | 0.043 | 0.048 | 0.047 |
| | 06/15/98 | 1,132 | 0.036 | 0.038 | 0.078 | 0.038 | - | 0.036 |
| | 08/17/98 | 1,195 | 0.064 | 0.060 | 0.076 | 0.061 | 0.072 | 0.083 |
| Barium | 06/16/97 | 769 | 0.108 | 0.118 | 0.115 | 0.136 | - | 0.109 |
| | 08/11/97 | 824 | 0.114 | 0.125 | 0.089 | 0.129 | 0.105 | 0.129 |
| | 10/14/97 | 888 | 0.102 | 0.077 | 0.070 | 0.088 | 0.136 | 0.133 |
| | 12/15/97 | 950 | 0.105 | 0.065 | 0.115 | 0.098 | 0.100 | 0.108 |
| | 02/17/98 | 1014 | 0.136 | 0.097 | 0.097 | 0.099 | 0.134 | 0.106 |
| | 04/14/98 | 1070 | 0.168 | 0.106 | 0.084 | 0.120 | 0.132 | 0.108 |
| | 06/15/98 | 1132 | 0.120 | 0.101 | 0.114 | 0.106 | - | 0.095 |
| | 08/17/98 | 1195 | 0.094 | 0.104 | 0.113 | 0.098 | 0.180 | 0.124 |
| Beryllium | 06/16/97 | 769 | <0.001 | <0.001 | <0.001 | <0.001 | - | <0.001 |
| | 08/11/97 | 824 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | 10/14/97 | 888 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | 12/15/97 | 950 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | 02/17/98 | 1,014 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | 04/14/98 | 1,070 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | 06/15/98 | 1,132 | <0.001 | <0.001 | <0.001 | <0.001 | - | <0.001 |
| | 08/17/98 | 1,195 | 0.002 | 0.002 | 0.001 | 0.002 | <0.001 | 0.002 |

Appendix E. Continued.

| Measure | Date | Day of study | WW1 | WW4 | WW4b | WW6 | WW8 | WW8b |
|----------|----------|--------------|--------|--------|--------|--------|--------|--------|
| Cadmium | 06/16/97 | 769 | <0.002 | <0.002 | <0.002 | <0.002 | - | <0.002 |
| | 08/11/97 | 824 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| | 10/14/97 | 888 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| | 12/15/97 | 950 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| | 02/17/98 | 1,014 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| | 04/14/98 | 1,070 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| | 06/15/98 | 1,132 | <0.002 | <0.002 | <0.002 | <0.002 | - | <0.002 |
| | 08/17/98 | 1,195 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Chromium | 06/16/97 | 769 | 0.008 | <0.005 | <0.005 | <0.005 | - | <0.005 |
| | 08/11/97 | 824 | <0.005 | <0.005 | 0.015 | <0.005 | 0.005 | <0.005 |
| | 10/14/97 | 888 | 0.006 | <0.005 | 0.019 | <0.005 | <0.005 | <0.005 |
| | 12/15/97 | 950 | 0.008 | <0.005 | 0.010 | <0.005 | <0.005 | <0.005 |
| | 02/17/98 | 1,014 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| | 04/14/98 | 1,070 | <0.005 | <0.005 | <0.005 | 0.005 | 0.005 | <0.005 |
| | 06/15/98 | 1,132 | <0.005 | <0.005 | <0.005 | <0.005 | - | <0.005 |
| | 08/17/98 | 1,195 | <0.008 | <0.008 | <0.008 | <0.008 | <0.008 | <0.008 |
| Copper | 06/16/97 | 769 | <0.001 | <0.001 | <0.001 | <0.001 | - | <0.001 |
| | 08/11/97 | 824 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | 10/14/97 | 888 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | 0.001 |
| | 12/15/97 | 950 | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | 02/17/98 | 1,014 | <0.001 | <0.001 | 0.002 | 0.002 | 0.001 | <0.001 |
| | 04/14/98 | 1,070 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| | 06/15/98 | 1,132 | 0.002 | <0.001 | <0.001 | 0.002 | - | 0.026 |
| | 08/17/98 | 1,195 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Iron | 06/16/97 | 769 | 0.055 | 0.042 | 0.051 | 0.054 | - | 0.047 |
| | 08/11/97 | 824 | 2.580 | 0.010 | 0.083 | 0.021 | 0.250 | 0.015 |
| | 10/14/97 | 888 | 0.018 | 0.018 | 0.035 | 0.017 | 0.006 | 0.022 |
| | 12/15/97 | 950 | 0.039 | 0.027 | 0.030 | 0.027 | 0.024 | 0.029 |
| | 02/17/98 | 1,014 | 0.010 | 0.010 | 0.010 | 0.110 | 0.010 | <0.005 |
| | 04/14/98 | 1,070 | 0.041 | 0.027 | 0.020 | 0.035 | 0.092 | 0.028 |
| | 06/15/98 | 1,132 | 0.027 | 0.045 | 0.037 | 0.041 | - | 0.068 |
| | 08/17/98 | 1,195 | 0.006 | 0.010 | 0.010 | 0.016 | <0.004 | 0.008 |
| Lead | 06/16/97 | 769 | <0.01 | <0.01 | <0.01 | <0.01 | - | <0.01 |
| | 08/11/97 | 824 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 |
| | 10/14/97 | 888 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| | 12/15/97 | 950 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| | 02/17/98 | 1,014 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| | 04/14/98 | 1,070 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | <0.01 |
| | 06/15/98 | 1,132 | 0.03 | <0.01 | <0.01 | 0.03 | - | <0.01 |
| | 08/17/98 | 1,195 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |

Appendix E. Continued.

| Measure | Date | Day of study | WW1 | WW4 | WW4b | WW6 | WW8 | WW8b |
|------------|----------|--------------|--------|--------|--------|--------|--------|--------|
| Magnesium | 06/16/97 | 769 | 7.3 | 14.1 | 16.7 | 9.8 | - | 7.8 |
| | 08/11/97 | 824 | 11.2 | 19.9 | 385 | 22.5 | 21.5 | 23.6 |
| | 10/14/97 | 888 | 21.3 | 21.9 | 381 | 22.5 | 22.8 | 24.3 |
| | 12/15/97 | 950 | 22.3 | 14.0 | 26.3 | 22.2 | 22.8 | 24.5 |
| | 02/17/98 | 1014 | 20.1 | 22.0 | 33.4 | 22.5 | 26.3 | 33.1 |
| | 04/14/98 | 1070 | 18.8 | 23.1 | 170 | 23.5 | 25.0 | 26.6 |
| | 06/15/98 | 1132 | 13.2 | 14.6 | 43.9 | 14.9 | - | 17.5 |
| | 08/17/98 | 1195 | 26.6 | 26.5 | 31.2 | 26.6 | 27.7 | 39.0 |
| Manganese | 06/16/97 | 769 | 0.008 | 0.099 | 0.145 | 0.063 | - | 0.042 |
| | 08/11/97 | 824 | 0.006 | 0.009 | 0.498 | 0.076 | 0.224 | 0.119 |
| | 10/14/97 | 888 | 0.009 | 0.009 | 0.411 | 0.011 | 0.013 | 0.029 |
| | 12/15/97 | 950 | 0.036 | 0.019 | 0.045 | 0.033 | 0.032 | 0.033 |
| | 02/17/98 | 1,014 | 0.017 | 0.019 | 0.031 | 0.037 | 0.088 | 0.061 |
| | 04/14/98 | 1,070 | 0.007 | 0.011 | 0.175 | 0.068 | 0.092 | 0.093 |
| | 06/15/98 | 1,132 | 0.004 | 0.006 | 0.074 | 0.010 | - | 0.050 |
| | 08/17/98 | 1,195 | 0.005 | 0.004 | 0.067 | 0.015 | 0.252 | 0.104 |
| Molybdenum | 06/16/97 | 769 | 0.005 | 0.004 | 0.005 | 0.004 | - | <0.002 |
| | 08/11/97 | 824 | 0.004 | 0.005 | 0.017 | 0.005 | 0.009 | 0.005 |
| | 10/14/97 | 888 | <0.002 | 0.002 | 0.024 | 0.004 | 0.004 | 0.003 |
| | 12/15/97 | 950 | 0.003 | 0.002 | 0.007 | 0.003 | 0.007 | 0.004 |
| | 02/17/98 | 1,014 | 0.007 | 0.008 | 0.010 | 0.008 | 0.006 | 0.007 |
| | 04/14/98 | 1,070 | 0.005 | 0.005 | 0.016 | 0.006 | 0.007 | 0.006 |
| | 06/15/98 | 1,132 | 0.006 | 0.003 | 0.005 | 0.003 | - | 0.003 |
| | 08/17/98 | 1,195 | <0.005 | <0.005 | <0.005 | 0.010 | 0.010 | 0.010 |
| Nickel | 06/16/97 | 769 | <0.003 | <0.003 | <0.003 | <0.003 | - | <0.003 |
| | 08/11/97 | 824 | <0.003 | <0.003 | <0.003 | <0.003 | 0.005 | 0.003 |
| | 10/14/97 | 888 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 | <0.003 |
| | 12/15/97 | 950 | <0.003 | <0.003 | <0.003 | 0.007 | 0.006 | 0.007 |
| | 02/17/98 | 1,014 | <0.003 | 0.007 | <0.003 | <0.003 | 0.007 | 0.008 |
| | 04/14/98 | 1,070 | <0.003 | 0.008 | 0.007 | 0.007 | 0.005 | 0.005 |
| | 06/15/98 | 1,132 | 0.005 | 0.003 | 0.011 | 0.010 | - | 0.005 |
| | 08/17/98 | 1,195 | <0.006 | <0.006 | <0.006 | <0.006 | <0.006 | <0.006 |
| Strontium | 06/16/97 | 769 | 0.233 | 0.333 | 0.398 | 0.271 | - | 0.241 |
| | 08/11/97 | 824 | 0.400 | 0.667 | 2.350 | 0.682 | 0.662 | 0.699 |
| | 10/14/97 | 888 | 0.686 | 0.682 | 3.250 | 0.701 | 0.719 | 0.718 |
| | 12/15/97 | 950 | 0.688 | 0.400 | 0.722 | 0.681 | 0.688 | 0.713 |
| | 02/17/98 | 1014 | 0.623 | 0.651 | 0.753 | 0.654 | 0.694 | 0.761 |
| | 04/14/98 | 1070 | 0.564 | 0.584 | 1.710 | 0.605 | 0.622 | 0.618 |
| | 06/15/98 | 1132 | 0.406 | 0.442 | 0.787 | 0.446 | - | 0.486 |
| | 08/17/98 | 1195 | 0.894 | 0.890 | 0.894 | 0.873 | 0.839 | 1.020 |

Appendix E. Continued.

| Measure | Date | Day of study | WW1 | WW4 | WW4b | WW6 | WW8 | WW8b |
|----------|----------|--------------|--------|--------|--------|--------|--------|--------|
| Vanadium | 06/16/97 | 769 | <0.004 | <0.004 | <0.004 | <0.004 | - | <0.004 |
| | 08/11/97 | 824 | <0.004 | <0.004 | 0.010 | <0.004 | <0.004 | <0.004 |
| | 10/14/97 | 888 | <0.004 | <0.004 | 0.010 | <0.004 | <0.004 | <0.004 |
| | 12/15/97 | 950 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 |
| | 02/17/98 | 1,014 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 |
| | 04/14/98 | 1,070 | <0.004 | <0.004 | 0.006 | <0.004 | <0.004 | <0.004 |
| | 06/15/98 | 1,132 | <0.004 | <0.004 | <0.004 | <0.004 | - | <0.004 |
| | 08/17/98 | 1,195 | 0.002 | 0.003 | 0.003 | 0.003 | <0.002 | 0.004 |
| Zinc | 06/16/97 | 769 | 0.010 | 0.010 | 0.017 | 0.010 | - | 0.010 |
| | 08/11/97 | 824 | 0.060 | 0.008 | <0.006 | 0.009 | <0.005 | 0.010 |
| | 10/14/97 | 888 | <0.005 | 0.005 | <0.006 | 0.008 | 0.007 | 0.010 |
| | 12/15/97 | 950 | <0.005 | 0.010 | 0.016 | 0.008 | 0.006 | 0.006 |
| | 02/17/98 | 1,014 | 0.010 | 0.017 | 0.008 | 0.010 | 0.007 | 0.007 |
| | 04/14/98 | 1,070 | 0.007 | 0.008 | <0.005 | 0.010 | 0.010 | 0.010 |
| | 06/15/98 | 1,132 | 0.020 | 0.008 | 0.006 | 0.010 | - | 0.008 |
| | 08/17/98 | 1,195 | <0.005 | <0.005 | <0.005 | 0.007 | 0.010 | 0.006 |

¹<: Less than limit of detection.

² -: Not sampled.